

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1226	(catheter same (blood with vessel)) and transducer and (catheter same (rotationally rotat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/24 18:31
S2	510	(catheter same (blood with vessel) same tissue) and transducer and (catheter same (rotationally rotat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/24 18:32
S3	68	(catheter same (blood with vessel) same (tissue with (cut \$4 penetrat\$3))) and transducer and (catheter same (rotationally rotat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/24 18:32
S4	53	(catheter same (blood with vessel) same (tissue with (cut \$4 penetrat\$3))) and (imag\$3 same transducer) and (catheter same (rotationally rotat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/24 18:33
S5	43	(catheter same (blood with vessel) same (tissue with (mark \$3 penetrat\$3))) and (imag\$3 same transducer) and (catheter same (rotationally rotat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/24 18:54
S6	2	"5968010".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/02/24 19:46
S7	19	("5345940"   "5588432"   "6375615").PN. OR ("6660024").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/24 19:55
S8	47	("4917097"   "4950267"   "5000185"   "5054492"   "5437282"   "5438997"   "5445155"   "5588437"   "5596990"   "5676151"   "5699806"   "5713363"   "5715825"   "5724977"   "5752518"   "5830222").PN. OR ("6375615").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/24 19:57
S9	19	\$5 and marker	USPAT	OR	OFF	2008/02/24 20:17

S10	16	("4917097"   "4950267"   "5000185"   "5054492"   "5437282"   "5438997"   "5445155"   "5588437"   "5596990"   "5676151"   "5699806"   "5713363"   "5715825"   "5724977"   "5752518"   "5830222").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/24 20:19
S11	7	S10 and marker	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/24 20:19
S12	2	"5345940".pn. "5588432".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/02/24 20:28
S13	1	10/714155	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/02/25 10:25
S14	27	catheter same mark\$3 same penetrator	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/08/21 14:41
S15	1	"5724977".pn.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/21 14:52
S16	2	"5713363".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/08/21 15:03
S17	32	("4325257"   "4817613"   "5054492"   "5163921"   "5318032"   "5485840"   "5485845").PN. OR ("5724977").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/21 15:35
S18	287	("4249539"   "4407294"   "4641649"   "4676258"   "4709698"   "4821731"   "4841977"   "4951677"   "4955377"   "5000185"   "5054492"   "5103804"   "5106360"   "5125410"   "5131397"   "5140987"   "5156151"   "5190046"   "5211176"   "5222501"   "5281215"   "5295484"   "5295962"   "5323781"   "5324255"   "5325860"   "5368035"   "5372138"   "5375601"   "5383460"   "5403311"   "5464016"   "5540679").PN. OR ("5588432").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/21 16:30

S19	125	{"3789833"   "3938502"   "4462408"   "4543960"   "4550607"   "4582067"   "4699009"   "4771788"   "4794931"   "4802487"   "4841977"   "4887605"   "4911170"   "4917097"   "4936281"   "4947852"   "4951677"   "4957111"   "5002059"   "5014710"   "5022399"   "5029588"   "5038789"   "5076278"   "5076279"   "5081993"   "5105819"   "5140558"   "5148810"   "5161537"   "5165413"   "5186177"   "5193546"   "5222501"   "5235986"   "5261408"   "5285788"   "5291893"   "5297553"   "5305756"   "5311871"   "5325860"   "5329496"   "5345940"   "5373845"   "5385148"   "5415175"   "5438998"   "5465724"   "5503152"   "5549111").PN. OR ("5713363").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/08/21 16:30
S20	443	S14 S15 S16 S17 S18 S19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/08/21 16:30
S21	67	S20 and (imag\$3 with penetrat \$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/08/21 16:31
S22	22	S20 and (imag\$3 with penetrat \$3 with path)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/08/21 16:31
S23	6	S20 and (imag\$3 with penetrat \$3 with path with project\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/08/21 16:32
S24	44	(catheter same tissue same (imag\$3 with (predict\$3 indicat \$3) with penetrat\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2008/08/22 08:17
S25	32	catheter same vessel same (tissue with penetrat\$3) same transducer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/13 17:41
S26	1	(US-5588432-\$).did.	USPAT	OR	OFF	2009/02/13 17:47
S27	1	S26 and transducer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/02/13 17:47
S28	1	(US-20040122318-\$).did.	US-PGPUB	OR	OFF	2009/02/13 18:04

S29	0	\$28 and (expected with path)	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	OFF	2009/02/13 18:05
S30	0	\$28 and (expected with path)	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	ON	2009/02/13 18:05
S31	1	\$28 and (path)	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	ON	2009/02/13 18:05
S32	6	\$25 and ((project\$3 predict\$3 expect\$3) with path)	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	ON	2009/02/13 18:33
S33	0	(catheter with transducer) same (((project\$3 predict\$3 expect\$3) adj path) with (penetrat\$3))	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	ON	2009/02/13 18:40
S34	2	(catheter with transducer) same (((project\$3 predict\$3 expect\$3) with path) with (penetrat\$3))	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	ON	2009/02/13 18:40
S35	24	(catheter with transducer) same (tissue with penetrat\$3) same (rotat\$8 with catheter with penetrat\$3)	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	ON	2009/02/13 18:42
S36	313	((J) near2 (FLAHERTY)).INV.	US-PGPUB; USPAT; USCOR	OR	OFF	2009/02/20 12:01
S37	40	((JASON) near2 (WHITT)).INV.	US-PGPUB; USPAT; USCOR	OR	OFF	2009/02/20 12:01
S38	179	((JOHN) near2 (CHANG)).INV.	US-PGPUB; USPAT; USCOR	OR	OFF	2009/02/20 12:01
S39	22	((DAVID) near2 (THOLFSEN)).INV.	US-PGPUB; USPAT; USCOR	OR	OFF	2009/02/20 12:01
S40	43	((PHILIP) near2 (EVARD)).INV.	US-PGPUB; USPAT; USCOR	OR	OFF	2009/02/20 12:01
S41	190	((JOSHUA) near2 (MAKOWER)).INV.	US-PGPUB; USPAT; USCOR	OR	OFF	2009/02/20 12:01
S42	564	S36 S37 S38 S39 S40 S41	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	OFF	2009/02/20 12:02
S43	30	S42 and ((tissue with penetrat\$3) same catheter same ((expect\$3 predict\$3 indicat\$3)) same (path advanc\$5))	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	ON	2009/02/20 12:03
S44	2	"7179270".pn.	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	ON	2009/02/20 12:38
S45	1	S44 and (penetrat\$3 same transducer)	US-PGPUB; USPAT; EPO; JPO; DERVENT	OR	ON	2009/02/20 12:39

S46	1	S44 and (imag\$3 transducer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/20 12:39
S47	1	09/912122	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/20 12:40
S48	2	10/467274	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/20 12:40
S49	1	(US-20040122318-\$).did.	US-PGPUB	OR	OFF	2009/06/19 15:22
S50	1	S49 and electronically	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/06/19 15:22
S51	0	(catheter same ((expected predicted) with path)) and (transducer with (element marker) with (expected predicted) with path)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/06/19 16:44
S52	0	(catheter same (exit with (side lateral\$4))) and (transducer with (element marker) with (expected predicted) with path)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/06/19 16:47
S53	1	S49 and substance	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2009/06/19 16:59
S54	0	(catheter same ((side lateral \$2) with (exit open\$4) with (penetrat\$3 energy substance))) and (imag\$3 with (mark\$3 element crystal) with (estimat\$3 predict\$3) with (penetrat\$3 energy substance))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/06/19 17:01
S55	0	(catheter) and (imag\$3 with (mark\$3 element crystal) with (estimat\$3 predict\$3) with (penetrat\$3 energy substance) with (route path))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/06/19 17:02
S56	6	penetration with path with imaging with element	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/06/19 17:05
S57	8	transducer with (element crystal) with penetrat\$3 with (route path projection) with (imag\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/06/19 17:12

S58	0	((transducer with (marker element crystal) with catheter) and ((marker element crystal) with (estimat\$3 predict\$3) with penetrat\$3 with (route path projection) with (imag \$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/06/19 17:22
S59	0	((side lateral\$2) with catheter) same (transducer with imag\$3 with (element marker) with (expected estimated predicted) with (path route))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/06/23 10:21
S60	0	((side lateral\$2) with catheter) same (imag\$3 with (element marker) with (expected estimated predicted) with (path route) with (penetrat\$3 energy substance material))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/06/23 10:22
S61	2126	600/430,439,462,463.ccls. 604/529.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/08/06 13:36
S62	300	S61 and (catheter same (element mark\$3) same transducer)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/08/06 13:37
S63	25	(catheter same ((penetrat\$3 substance flow energy) with (side lateral\$2)) same (transducer with (mark\$3 element)))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/08/06 14:53

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